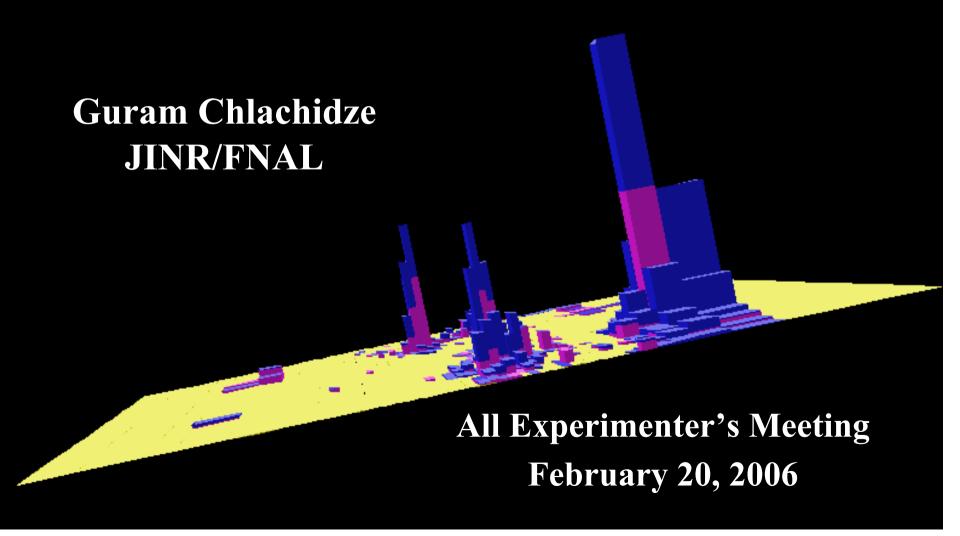


CDF Operations Report



Detector News

Trigger

 New default trigger table - 2nd version of the Run-IIb unified trigger table, was implemented

Silicon Vertex Trigger (SVT)

- All Run-IIb hardware components are installed
- Commissioning in progress
 - ➤ Now we are using 512k track patterns (instead of 128k) with the same efficiency of "online" secondary vertex reconstruction

Stereo track trigger upgrade

- Critical pieces of Run-IIb hardware are installed
- Commissioning in progress
- Linker firmware changed to the fast 4-layer track reconstruction in the Central Outer Tracker (COT)

Detector News

• Store 4639

- Record initial luminosity for CDF (182E30 cm⁻²sec⁻¹) and record delivered (7.2 pb⁻¹) and saved (6.3 pb⁻¹) luminosity per store
- One single run was stored
- Silicon Vertex Trigger (SVT) update: now tracks from the Central Outer Tracker (COT) are sent to the specific SVT wedge only
- Tevatron Electron Lens trip

• Store 4642

- Level 2 trigger problem under investigation, no harm to the quality of data (just slightly increased downtime)
- Post-quench Silicon check was done, detector was found in a healthy condition

Store 4647

- 1x1 store, no collisions at CDF
- New version of the trigger table was tested
- SVT group tested configuration with 512k track patterns in the associated memory

Detector News & Access Report

Store 4653

- 3 modified Hit Buffers (HB++) are installed and tested for the SVT upgrade
- All SVT wedges are equipped with 2nd AM++ boards
- New version of firmware was tested and installed to read 2 AM++ modules per wedge
- Several ongoing tests of the COT Stereo track trigger

Store 4654

 Smooth data taking, almost 95% of the delivered luminosity was saved

Controlled Access: Tuesday, February 14th

Central Calorimeter

 Replaced front end cards – brought back 4 channels of Hadron Calorimeter

CDF Store Summary (February 13 – 20, 2006)

Store	Start Date	Time [hrs]	Uptime [hrs]	Ini. lum [E30]	Tot. Del. Lumin. [pb ⁻¹]	Live Lumin. [pb ⁻¹]	Comments
4639 Normal	02/12 Sun-Tue	36.8	34.4	181.7	7.2	6.3 88.4 %	Record luminosities
4642 Abort	02/14 Tue	2.7	2.1	125.3	1.0	0.6 64 %	Level 2 trigger
4647 Normal	02/15 Wed-Fri				1x1	Store	
4653 Normal	02/18 Sat	22.7	19.6	41.3	1.4	1.2 83.6 %	36x32 store
4654 Normal	02/19 Sun	23.5	23.4	76.9	2.7	2.5 94 %	
Total	02/13 - 20	85.7	79.5 93 %		12.3	10.6 86.2 %	

Run II Integrated Luminosity

